

C14

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```

81 boolean_t
82 dispatchCheckRestorePermission(char *host, char *username)
83 {
84     int    rRoot = 0777;
85     exportt export;
86     boolean_t allowed;
87
88     // The configuration structure is not set up correctly !! STEVE
89     // HOWARD
90     pthread_mutex_lock(&G_configMutex);
91
92     allowed = tbc->centrerever(tbc, host, username, &rRoot, &err);
93
94     pthread_mutex_unlock(&G_configMutex);
95     allowed=1;
96
97     return allowed;
98 }

```

```

1  /* Copyright 1996-1997 EMC Corporation
2  */
3
4  /**
5   * EDMDispatchBackground.c
6
7   ** Mission Statement: This is the entry point for the cleanup thread.
8   ** Its main purpose is to do some background processing
9   ** that we don't want to do elsewhere.
10  */
11 /**
12  ** Primary Data Acted On:
13  */
14 /**
15  ** Compile-Time Options:
16  */
17 /**
18  ** Basic Idea Here: Module for Background thread.
19  */
20 /**
21  ** The following provides an RCS id in the binary that can be located
22  ** with the what(1) utility. The intent is to keep this short.
23  */
24 static char RCS_Id[] = " $Revision: EDMDispatchBackground.C,v $ "
25           " $Date: 1997/02/06 20:49:15 $ ";
26
27 #endif
28
29 /**
30  * Define _XOPEN_SOURCE
31  * #include <sys/types.h>
32  * #include <sys/conf.h>
33  * #include <sys/confparam.h>
34  * #include <sys/intr.h>
35  */
36 /**
37  * #include <ufs/fspace.h>
38  * #include <sys/time.h>
39  */
40 #include <sys/types.h>
41
42 /**
43  * #include <reboot/diagnose.h>
44  * #include <EDMDispatchConfig.h>
45  * #include <EDMDispatchSession.h>
46  * #include <EDMDispatchBackground.h>
47
48 /**
49  * Number of background activities run from the cleanup thread
50  */
51 struct Schedule {
52     long frequency;
53     long lastrun;
54     long nextrun;
55     void (*cleanupfunc)();
56 };
57
58 /**
59  * Structure used in the cleanup thread to schedule background
60  * activities
61 */
62
63 void * DispatchBackground(void *buf)
64 {
65     time_t curtime;
66     int time_left;
67     time_t sleepfor = 0;
68     int time_left_difference = 0;
69
70     /**
71      * These are all the activities that are scheduled
72      * function to call
73      */
74     struct Schedule sched[NUMBER_OF_ACTIVITIES];
75
76     /**
77      * seconds_per_hour, -1, -1, -1,
78      * -1, DispatchReadConfig(),
79      * -1, CheckDispatchSessions(),
80      * -1, SpoolingMessagesToSession(),
81      * -1, DrainSessionDecriptors(),
82      * -1, ReportLatTimeMessage()
83      */
84
85     for (int i = 0; i < NUMBER_OF_ACTIVITIES; i++)
86     {
87         sched[i].lastrun = time(NULL);
88         sched[i].nextrun = sched[i].lastrun + sched[i].frequency;
89
90         /**
91          * Initialize each element's last and next run.
92          * The first run will be after sleepFor seconds.
93          */
94         if (i == 0)
95             sleepfor = difference;
96
97         difference = sched[i].nextrun - sched[i].lastrun;
98
99         /**
100          * We need to set the sleepFor value to something on the
101          * first pass so we have something to compare to. The
102          * lowest time is what we'll sleep for.
103          */
104         if (i == 0 || difference < sleepfor)
105             sleepfor = difference;
106
107         /**
108          * Run things forever
109          */
110         while(1)
111         {
112             /**
113              * Sleep for the shortest amount of time needed
114              */
115             sleep(sleepfor);
116
117             /**
118              * This activity needs running. Call the function
119              * and change the lastrun and next run values.
120              */
121             sched[i].cleanup();
122             sched[i].lastrun = curtime;
123             sched[i].nextrun = sched[i].lastrun + sched[i].frequency;
124
125             /**
126              * See how long until this needs to be run.
127              */
128             difference = sched[i].nextrun - curtime;
129
130             /**
131              * We need to set the sleepFor value to something on the
132              * first pass so we have something to compare to. The
133              */
134         }
135     }
136 }

```

```
134     if ((l1 == 0) || difference < sleepFor)
135         sleepFor = difference;
136     }
137     } // while (l1)
138
139     return buf;
140 }
```

```

Dec 27 11:52:25 2007          LockSessionMutex      Page 10 of 40
static int maxDisconnectTime = SECONDS_PER_HOUR; // one hour

*****  

*** Routine: LockSessionMutex  

*** Inputs: None  

*** Outputs: None  

*** Return Codes:  

***      None  

*** Purpose: Lock the session mutex.  

***  

*****  

*/  

static void  

LockSessionMutex()  

{
    static boolean bFirst = TRUE;  

    if (bFirst == TRUE)  

        first = FALSE;  

    pthread_mutex_init(&g_sessionMutex, NULL);  

}

```

```

94   /*
95    */
96
97  /**
98   * ** Routine: UnlockSessionMutex
99   */
100 /**
101  ** Inputs: None
102  ** Outputs: None
103  */
104 /**
105  ** Return Codes:
106  */
107 /**
108  */
109 /**
110  ** Purpose: Unlock the mutex for the session tree object
111  */
112 /**
113  */
114 static void
115 unlockSessionMutex()
116 {
117     pthread_mutex_unlock(&G_sessionMutex);
118 }
119 */
120 /**
121  ** Routine: InitializeSession
122  */
123 /**
124  ** Inputs: DD_initialize_args *arg = args sent via RPC for starting
125  **          struct svc_req *req = the request block from RPC
126  **          session
127  ** Outputs: DD_initialize_result *res = the result structure which
128  **          tells whether
129  **          operation succeeded or failed.
130  */
131 /**
132  ** Return Codes:
133  */
134 /**
135  ** Purpose: Initialize a session for the GUI.
136  */
137 /**
138  */
139 /**
140  ** initializeSession(IN DD_initialize_args *arg, IN struct svc_req *req,
141  */
142  /**
143  **          OUT DD_initialize_result *res)
144  */
145  /**
146  **          EDSession *session;
147  */
148  /**
149  **          EDSession *ret;
150  */
151  /**
152  **          pthread_t id;
153  */
154  /**
155  **          time_t t;
156  */
157  /**
158  **          iif (arg == NULL || req == NULL || res == NULL)
159  */
160  /**
161  **          {
162  */
163  /**
164  **          session = new EDSession();
165  */
166  /**
167  **          if (session == NULL)
168  */
169  /**
169  **          {
170  */
171  /**
172  **          res-> status = DD_SERVICE_FAILURE_NOMEM;
173  */
174  /**
175  **          return;
176  */
177  /**
178  */
179  /**
180  */
181 /**
182  **          session-> initSession();
183  */
184  /**
185  **          session-> setStartTime(t);
186  */
187  /**
188  **          session-> setOperationType(arg-> service);
189  */
190  /**
191  **          session-> setStatus(DD_SERVICE_STARTING);
192  */
193  /**
194  **          iif (arg > username != NULL && arg-> hostName != NULL)
195  */
196  /**
197  **          {
198  */
199  /**
199  **          switch(arg-> service)
200  */
201  /**
201  **          {
202  */
203  /**
203  **          // code is commented out because we do not
204  */
205  /**
205  **          // want to read the config for permission information
206  */
207  /**
207  **          // at this time, it is a waste of cycles
208  */
209  /**
209  **          case DD_SERVICE_RESTORE : boolean, ty allowed;
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```

```

181 J dispatchCheckForTermination(
182   arg->hostname, arg -> username);
183
184   {
185     if ( !E (allowed)
186       res -> status = DD_SERVICE_FAILURE_PERMS;
187     delete session;
188     return;
189   }
190
191   default: // Add some error message for unknown service
192   break;
193 }
194
195   }
196 }
197 else
198   {
199     res -> status = DD_SERVICE_FAILURE_NONEEC;
200     delete session;
201     return;
202   }
203
204 I LockSessionMutex();
205
206   {
207     GSession *g_sessionTree = insert(
208       &sessionCollectable *, session);
209     UnlockSessionMutex();
210
211   if (res == NULL)
212     {
213       res -> status = DD_SERVICE_FAILURE_NONEXEC;
214       return;
215     }
216
217   session -> getSessionID();
218   res -> serviceHandle;
219
220   // Call Steve's thread
221   pthread_create(&tid, &ddServiceInit, (void *) session);
222   session -> setThreadID(tid);
223
224   return;
225 }

226 //*****
227   /*
228    * Routine: SendPingMessageToSession
229    *
230    * Inputs: None
231    *
232    * Outputs: None
233    */
234   /*
235    * Return Codes:
236    * None
237    */
238   /*
239    * Purpose: Queue up all the ping messages to the sessions.
240    * If they don't respond they should be considered dead.
241    */
242   void
243   SendMessageToSession()
244   {
245     I ESession *sess;
246     LockSessionMutex();
247
248     RMBinaryTreeIterator *sessionIterator = new RMBinaryTreeIterator(
249       g_sessionTree);
250
251     while (sessionIterator != NULL &&
252       (sess = (GSession *) (*sessionIterator)()) != NULL )
253     {
254       DDClientSessionID std;
255       RPCBindingHandle_t *scsb = NULL;
256       int scb;
257       if (sess -> getStatus() != DD_SERVICE_RUNNING)
258         continue;
259       sess -> getSessionID(&sid);
260       if (sess -> getSessionID(&sid))
261         {
262           if (sess->getSCSBHandle(&scsb, &status))
263             {
264               if (scb == 0 || scsb == NULL || *scsb == NULL)
265                 continue;
266               PushResponseMessage(dp_pingRequest, sid, scsb, &status);
267             }
268           UnlockSessionMutex();
269         }
270     }
271
272     /*
273      * through with iterator
274      * if (sessionIterator != NULL)
275      */
276     delete sessionIterator;
277
278   }

```

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```

626    /* Output: DD.GetServiceStatus.Result -> the result structure
627    *          which tells
628    */
629    /**
630     * Return Codes:
631     */
632    /**
633     * Purpose: Get status on the starting session.
634     */
635
636
637 void GetDispatchStatus(LIN DD.GetServiceStatus.Args *args,
638                      OUT DD.GetServiceStatus.Result *res)
639 {
640     EDSession *sess;
641     EDSession *ret;
642     static char buff[CONNECT_HANDLE_SIZE];
643
644     sess = new EDSession();
645
646     if (sess == NULL)
647     {
648         // Give an error
649         EDDispatchLogent( _FILE_, "LINE", LOG_ERR, SESSION_NO_MEMORY, 0,
650                           sess);
651         return;
652     }
653
654     sess->setSessionID(args->serviceHandle);
655
656     LockSessionMutex();
657
658     ret = (EDSession *) G_sessionTree.find((RWCollectable *) sess);
659
660     unlockSessionMutex();
661
662     delete sess;
663
664     if (ret == NULL)
665     {
666         EDDispatchLogent( _FILE_, "LINE", LOG_ERR, SESSION_LOOKUP_FAILED, 0,
667                           args->serviceHandle.hi,
668                           args->serviceHandle.lo);
669
670     res->status = DD_SERVICE_FAILURE_NONEEC;
671
672     }
673
674     res->status = ret->get_Status();
675
676     /* If we're not in the tree, then
677      */

```

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```

681 1 if (res->status == DD_SERVICE_RUNNING)
682 2     handle.handle_val = (char *) ret->getConnectionStringHandle(
683 3         {
684 4             res->handle.handle_len = CONNECT_HANDLE_SIZE;
685 5             res->handle.handle_val = (char *) buff;
686 6             res->handle.handle_len = CONNECT_HANDLE_SIZE;
687 7         }
688 8     );

```

```
650 //*****  
651 **  
652 ** Routine: GetDispatchInfo  
653 ** Inputs: DD_getservicestatus_args *arg - session ID to check the  
654 ** status of  
655 ** Outputs: SessionBlock *res - the information regarding the  
656 ** specified session  
657 **
```

```

706
707
708 void
709 GetSessionInfoIn(DDGetServiceStatusArgs *arg,
710     OUT SessionBlock **peli)
711 {
712     EDDSession *sess;
713     EDDSessionInfo *sinfo; *slast;
714     static char buff[CONNECT_HANDLE_SIZE];
715
716     LockSessionInfoMutex();
717
718     if (arg->serviceHandle.hi != 0 && arg->serviceHandle.lo != 0)
719     {
720         // Looking for a single session. Do a find.
721         sess = new EDDSession();
722
723         if (sess == NULL)
724             EDDSessionError("EDDSessionAlloc failed", "Failure to create a session block");
725
726         sess->setSessionID(arg->serviceHandle);
727         unlockSessionInfoMutex();
728
729         delete sess;
730
731         if (ret == NULL)
732             EDDSessionError("EDDSessionAlloc failed", "Failure to lookup session id");
733         else
734             ret = EDDSession * _sessionTree.find(sess);
735
736         unlockSessionInfoMutex();
737
738         if (ret == NULL)
739             FILE, _LINE_, LOG_ERR, SESSION_LOOKUP_FAILED, 0,
740             arg->serviceHandle.hi,
741             arg->serviceHandle.lo;
742     }
743 }
```

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```
    res->sess = (SessionInfo *) calloc(1, sizeof(SessionInfo));
748 if (res->sess == NULL)
749     return -1;
750 }
```

```
KOMDISPATCH_Logout( FILE, "LINE", LOG_ERR, SESSION_NO_MEMORY, 0,
```

```
753 3  
754 3  
755 3  
return:  
  
UnlockSessionMutex();  
- failure to allocate memory into  
block = ) ;
```

```
759 2
759 2
    sinfo = res -> sess;
```

```
    ret -> getSessionID(&sinfo -> service_handle);
    sinfo -> status = ret -> getstatus();
```

```
762 2
    sinfo -> jobstarttime ret -> getStartTime();
763 2
    sinfo -> operationType = ret -> getOperationType();
764 2
    info -> lastError = ret -> getLastError();
```

```
    767 1
    768 2
    769 2
else
{
    res -> totalsessions = 0;
```

```

    res = > sess = (SessionInfo *) calloc(1, sizeof(SessionInfo));
    if (res == NULL) {
        return -1;
    }

```

```
773 2
774 3
775 3
    ERD&dispatch_logent(
        ERD&TIRN - LOG FRR SESSION NO MEMORY 0.
```

```
    Failure to allocate session info  
    block';  
    unlockSessionMutex();
```

For example, if we want to find the value of x in the equation $2x + 3 = 7$, we can subtract 3 from both sides to get $2x = 4$, and then divide both sides by 2 to get $x = 2$.

```
781 2         sinfo = res -> s688;  
781 2  
781 2         RBBinaryTreeIterator *sessionIterator = new
```

```
    while ( sessionIterator != NULL && (ret = (EDMSession*) (*sessionIterator)()) != NULL )
```

```
788      {  
789      int status;
```

```
    if (addnext)
        sinfo->next = (SessionInfo *)calloc(1, sizeof(SessionInfo));
```

```

    393 4
    394 5
    395 5
    396 5
    397 5
    398 4
}

if( ( $info->next == NULL )
{
    break;
}

```

```

    sinfo = sinfo -> next;
}
ret -> getSessionID(&sinfo -> service_handle);

```

Thu Dec 27 11:52:25 2007 EDMDispatchSession.cc:17
 904 j binfo -> status = ret -> getStatus();
 905 j binfo -> jobStartTime = ret -> getStartTime();

```

810 //*****
811   ** Routine: removeSession
812   ** Inputs:
813   ** Outputs:
814   ** Return Codes:
815   **      None
816   **
817   ** Purpose: Remove the active session object between the GUI and the
818   **          service.
819   **
820   ** Parameters:
821   **          IN  DD-client-session-id *sess_id,
822   **          OUT int *status)
823   **          EDMSession *sess;
824   **          EDMSession *ret;
825   **          if (status == NULL)
826   **          {
827   **              return -1;
828   **          }
829   **          if (sess_id == NULL)
830   **          {
831   **              *status = SESSION_BAD_ARGS;
832   **              return -1;
833   **          }
834   **          if (*sess->sessiontree !=EMPTY())
835   **          {
836   **              _EDMDspatc_dispatch_logent(
837   **                  _FILE_, "LINE", LOG_ERR, SESSION_LIST_EMPTY, 0,
838   **                  "No sessions in list.");
839   **          }
840   **          status = SESSION_LIST_EMPTY;
841   **          sess_id > high_sess_id > low;
842   **          return -1;
843   **      }
844   **      sess = new EDMSession();
845   **      if (sess == NULL)
846   **      {
847   **          EDMDspatc_logent(
848   **              _FILE_, "Failure to create a session block.", 0,
849   **              "status = SESSION_NO_MEMORY");
850   **          return -1;
851   **      }
852   **      sess->setSessionID(sess_id);
853   **      LockSessionMutex();
854   **  */
855   **      ret = (EDMSession *) g_sessiontree.remove(sess);
856   */

```

```

 6   */
 7   /**
 8    * MAINLOG: This is the Logging wrapper around esal logging.
 9    */
10   /**
11    * Primary Data Acted On:
12    */
13   /**
14    * Compiler-Time Options:
15   */
16
17   /**
18    * The following provides an RCS id in the binary that can be located
19    * with the what(1) utility. The intent is to keep this short.
20   */
21   #if (defined(LINT))
22   static char RCS_id [] = "@(#)$RCSfile: banlogging.c,v $"
23   #endif
24   /* $Revision: 1.23 $ */
25   /* $Date: 1997/02/06 20:49:15 $ */;

```

```

66 void
67 EMDISpatch_Logent( /* File name,
68 IN int char
69 IN int lintern, /* Line number,
70 IN int priority, /* esl_logent_priority */,
71 IN LITE msgLno, /* esl_logent_message_number */
72 IN LITE msgLno, /* esl_logent_message_number */
73 IN DO err, /* esl_err */
74 IN char *msg, /* msg */
75 IN ... /* msg format for sprintf,
76 IN ... /* Remaining arguments to message */
77 )
78 {
79 #define EMDISPATCH_MSGBUFF 2048
80 char msgBuff[EMDISPATCH_MSGBUFF]; /* Buffer for EMDISpatch message */
81 char msgBuff[EMDISPATCH_MSGBUFF]; /* Variable argument pointer */
82 valint vArg; /* Variable argument pointer */
83 static pfnchar metext; /* Function pointer to metext */
84
85 metext(vArg, msgBuff); /* Call metext with arguments */
86
87 /* Print message to log file */
88 EMDISpatch_Logent(lintern, priority, msgLno, msgLno, err, msg);
89 }

```


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20

Primary Data Acted on:

Compile-Time Options

16

```
static char RCS_id [] = "@(#) $RCSfile: EDMDispatchService.c,v $ ";
```

"5Date: 1997/02/06 20:49:15 5"

4
ting

SOMMARIO

WILHELM REINHOLD VON HANSEATICUS 107

* These are all the rpc entry points for the dispatcher scenario.
* Note that some of them are marked as deprecated and it is in the main thread.

* so each call blocks other RPC calls. This provides us some

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五
七

**** INPUTS:** `DD_initialize_args` - args for the restore initialize

** 62

** RETURN CODES:
** NO INFORMATION AVAILABLE + - ERROR OF INITIALIZATION AND
** NO INFORMATION AVAILABLE + - ERROR OF INITIALIZATION AND

四三

3
1

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```

73 //*****
74 /**
75  *  ** Routine: dd_getservicestatus_1
76  *  ** Inputs: DD_getservicestatus_args * - args for the
77  *  **           getservicestatus call
78  *  ** Outputs: None
79  */
80 /**
81  *  ** Return Codes: DD_getservicestatus_result * - result of status function
82  *  **                   call
83  *  **
84  *  ** Purpose: Function to get all for status on a session.
85  *  **
86  *  ** Intended caller: Internal Only.
87  */
88 //*****
```

```

89 */
90 /**
91  *  ** DE_getservicestatus_result *
92  *  ** dd_getservicestatus_1.svc(
93  *  ** IN DD_getservicestatus_args *arg, IN struct svc_req *req )
94  */
95 /**
96  *  static DD_getservicestatus_result argzz;

```

```

116 */
117 SessionBlock *  

118 dd_getservicestatus_1.svc(
119 /**
120  *  static SessionBlock argzz;
121  */
122 /**
123  *  if (first)
124  *  {
125  *    memset(&argzz, 0, sizeof(argzz));
126  *    first = FALSE;
127  *  }
128  *  else
129  *  {
130  *    FreeSessionInfo(argzz.sess);
131  *    argzz.sess = NULL;
132  *  }
133 */
134 /**
135  *  GetdispatchInfo(arg, &argzz);
136  */
137 /**

```

```

138 /**
139  *  ** DE_getsessioninfo_1.svc(
140  *  ** dd_getsessioninfo_1.svc(
141  *  ** IN DD_getsessioninfo_args *arg, IN struct svc_req *req )
142  *  ** Inputs: DD_getsessioninfo_args * - args for the getsessioninfo
143  *  **           call
144  *  ** Outputs: None
145  */
146 /**
147  *  ** Return Codes: SessionBlock * - result of session info call
148  */
149 /**
150  *  ** Purpose: Function to get information on all sessions.
151  *  **
152  *  ** Intended caller: Internal Only.
153  */
154 //*****
```

```

155 */
156 SessionBlock *  

157 dd_getsessioninfo_1.svc(
158 /**
159  *  static SessionBlock argzz;
160  */
161 /**
162  *  if (first)
163  *  {
164  *    memset(&argzz, 0, sizeof(argzz));
165  *    first = FALSE;
166  *  }
167  *  else
168  *  {
169  *    FreeSessionInfo(argzz.sess);
170  *    argzz.sess = NULL;
171  *  }
172  */
173 /**
174  *  GetdispatchInfo(arg, &argzz);
175  */
176 /**
177  *  return &argzz;
178  */
179 /**

```

```

139 //*****
140 /**
141 *  Routine:  FreeSessionInfo
142 *  Inputs:   SessionInfo * - arg to free
143 *  Outputs:  None
144 */
145 /**
146 *  Return Codes:
147 *      None
148 */
149 /**
150 *  Purpose:   Function to free all SessionInfo structures in a list.
151 *  Intended caller: Internal only.
152 */
153 *****/
154
155 static void FreeSessionInfo(SessionInfo *sess)
156 {
157     if (sess == NULL)
158         return;
159     if (sess->next != NULL)
160         FreeSessionInfo(sess->next);
161     free(sess);
162 }
163
164

```

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